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**Agriculture and Mechanics**

**The Handmaids**

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**Progress and Prosperity**

# **H. & M. College Register.**

CATALOGUE NUMBER.

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VOL. 2.

GREENSBORO, N. C., JULY, 1900.

No. 2.

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Entered at the Postoffice at Greensboro, N. C., as second-class  
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**SUBSCRIPTION, 30 CENTS A YEAR.**









MAIN BUILDING.



BOY'S DORMITORY.



BARN AND DAIRY.



BUTTER MAKING.

SIXTH ANNUAL CATALOGUE

OF THE

# Agricultural and Mechanical College

FOR THE

COLORED RACE,

GREENSBORO, N. C.

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1899-1900.

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GREENSBORO, N. C.:  
REECE & ELAM, POWER BOOK AND JOB PRINTERS,  
1900.

## Calendar—1900-1901.

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SEPTEMBER 27-28—Examinations.

SEPTEMBER 29—Registration.

OCTOBER 1—Fall Term begins.

DECEMBER 21—Fall Term ends.

JANUARY 2—Winter Term begins.

MARCH 22—Winter Term ends.

MARCH 27—Spring Term begins.

MAY 26—Baccalaureate Sermon.

MAY 30—Commencement.

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## Holidays.

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THANKSGIVING DAY.

ARBOR DAY.

LINCOLN'S BIRTHDAY.

WASHINGTON'S BIRTHDAY.

MORRILL'S BIRTHDAY.



## Board of Trustees.

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First Congressional District, W. R. WILLIAMS.  
Second Congressional District, ———  
Third Congressional District, H. C. TYSON.  
Fourth Congressional District, W. F. DEBNAM.  
Fifth Congressional District, T. B. KEOGH.  
Sixth Congressional District, ———  
Seventh Congressional District, L. C. CALDWELL.  
Eighth Congressional District, J. T. BENBOW.  
Ninth Congressional District, CHAS. E. LANE.

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M. C. S. NOBLE,  
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A. M. SCALES,  
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## Officers of Trustee Board.

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R. W. MURRAY, TREASURER, Greensboro, N. C.

## Faculty and Officers.

---

JAMES B. DUDLEY, A. M., PRESIDENT,

Shaw University; A. M. Livingstone College,

HISTORY AND CIVICS.

Teacher in Public Schools 1876-1880. Principal Peabody Graded School 1880-1896.  
Present position since 1896.

JOHN THOMPSON, B. AGR.,

University of Minnesota,

AGRICULTURE AND CHEMISTRY.

Instructor in Butter and Cheese Making, School of Agriculture, University of Minnesota, 1890-1891. Assistant in Agricultural Chemistry Minnesota Experiment Station 1891-1895. Assistant in Agricultural Chemistry and State Analytical Work in the Clemson Agricultural College and Experiment Station 1895-1898. Present position since 1898.

HUGO DIEMER, M. E.,

Ohio State University,

MECHANICAL ENGINEERING AND AGRICULTURE,

Engaged in Shops, Purchasing and Sales Departments of Westinghouse Electric and Manufacturing Company 1896-1898. Manager of Cost Department Bullock Electric Manufacturing Company, Cincinnati, 1898-1899. Instructor in Electrical Engineering Cincinnati Y. M. C. A. College 1897. Instructor in Electricity and Mechanical Drawing Atlanta (Ga.) Y. M. C. A. 1898-1899. Present position since 1899.

CHARLES H. MOORE, A. M., BURSAR,

Amherst College, Massachusetts.

ENGLISH.

Principal Graded School, Greensboro, N. C., 1878-1880. A. M. Amherst College 1885. Chair of Ancient Languages Bennett College 1885-1891. Present position since 1897. Principal Preparatory Department.

SOPHIA M. PARKER,

St. Augustine School, Raleigh, N. C.,

PRINCIPAL DEPARTMENT OF DOMESTIC SCIENCE.

Present position since 1897.

GEORGE C. SNOW,

Massachusetts Normal Art School,

ASSISTANT IN MATHEMATICS AND ARCHITECTURE.

Present position since 1898.

D. A. WILLISTON, B. S. A.,

Cornell University,

ASSISTANT IN AGRICULTURE AND CHEMISTRY.

Present position since 1897.



I. S. CUNNINGHAM, B. S.,  
A. and M. College, Greensboro, N. C., 1899.  
JOINERY AND WOOD-TURNING.  
Present position since 1899.

BURK HAYWOOD,  
BLACKSMITHING.

MARY HARRIS PERRY,  
Washington (D. C.) High School,  
ASSISTANT IN PREPARATORY DEPARTMENT.  
Present position since 1898.

ESTELLA MAY CARTER,  
New Bedford High School, Massachusetts,  
LIBRARIAN OF COLLEGE.  
Typewriter State House, Boston, Mass., 1896-1897.  
Present position since 1898.

ALICE V. WILLIAMS,  
Bennett Seminary,  
MATRON.  
Matron Bennett Seminary 1897-1898.  
Present position since 1898.

JUNIUS ROOKS,  
STEWARD AND FOREMAN OF FARM.

J. ELMER DELLINGER, M. D.,  
Shaw University.  
Formerly Professor Physiology and Chemistry in Shaw University. Resident  
Physician and Surgeon in Charge Leonard Medical Hospital. Professor of  
Chemistry and College Physician to the Agricultural and Mechanical College  
for the Colored Race, and late Major and Surgeon of Third North Carolina  
Volunteer Infantry, U. S. A.

... THE ...

# AGRICULTURAL AND MECHANICAL COLLEGE

FOR THE

## COLORED RACE.

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This College was established by an Act of the General Assembly of North Carolina, ratified March 9, 1891. The leading object of the institution is declared by the Act to be instruction in practical agriculture, the mechanic arts and such branches of learning as relate thereto.

The management and control of the College and the care and preservation of all its property is vested in a Board of Trustees, consisting of fifteen members, one from each Congressional District and six at large, who are elected by the General Assembly for a term of six years.

The Trustees, by the Act of the Legislature, have power to prescribe rules for the management and preservation of good order and morals at the College; to elect the President, Instructors and as many other officers and servants as they shall deem necessary; have charge of the disbursement of the funds, and have general and entire supervision of the establishment and maintenance of the College.

The Board is empowered to receive any donation of property, real or personal, which may be made to the College, and have power to receive from the United States the proportion of funds given to the institutions for agricultural and mechanical training.

The financial support of the College for the payment of salaries and purchase of apparatus and equipment is derived, for the most part, from the United States, under an Act of Congress, known as the "Morrill Act," passed August 20, 1890. This Act makes an annual appropriation for each State and Territory for the endowment and support of Colleges for the benefit of agriculture and the mechanic arts, to be applied "only to instruction in agriculture, the mechanic arts, the English language and the various branches of mathematical, physical, natural and economic science, with special reference to their application in the industries of life and to the facilities of such instruction."

The citizens of Greensboro donated twenty-five acres of land and \$8,000, to be used in construction of buildings. In 1893 this was supplemented by an appropriation of \$10,000 by the General Assembly. The main building, one of the finest school edifices in North Carolina, was completed in 1893, and the School opened in the fall of that year. A large dormitory, which cost \$6,000, a complete laundry and a greenhouse have been added.

In the summer of 1895 the Mechanical Building, a large two-story brick structure, 88x119 feet, was erected at a cost of about \$9,000. This building, by the expenditure of about \$7,000, has been supplied with probably the finest and most modern equipments of any school in the State.

Girls are admitted to the College on the same terms as "pay students". In addition to the excellent facilities offered for acquiring a good English education, the young women, under competent instructors, are taught sewing, cooking and laundry and dairy work. The well-arranged laundry, spacious sewing-rooms, model kitchen and dining-room are some of the facilities afforded for practical instruction in those branches of domestic science.

The Trustees invite the careful consideration of the colored people of North Carolina, particularly the educators among them and leaders of thought, to the grand opportunities offered by the State and aided by the United States to the colored youth to thoroughly equip themselves for the battle of life and prepare to successfully work their way as "breadwinners" and secure honorable independence, carrying with it the highest type of American citizenship. Brain and hands are here educated together.

Fully 80 per cent. of the colored people in this State live in the country and subsist on agriculture. The future of the colored race in the South depends upon the ownership of farm lands and their intelligent and skillful treatment by colored farmers. This field will be free from competition and race feeling. Owners of large tracts of land now yielding nothing will be only too glad to rent them to the skilled farmer who graduates from an agricultural college, and also provide him with stock and implements of husbandry.

The young man who leaves this College, with honor, a good character and a well-trained mind; who is familiar with science and art relating to his calling in agriculture, mechanics or any of the trades, will not be compelled to canvass the country seeking employment. Capital will be looking for him to place him in charge of lands and stock, to handle machinery and direct unskilled labor. Wherever



skilled labor is found among producers, turning the wheels of industry that increase the wealth of the world, there will be found graduates of the Agricultural and Mechanical College.

North Carolina is an agricultural State. Her manufacturing interests are increasing in a wonderful manner; her mineral resources are great, and the future of wealth lies in the hands of the men who will guide her plow, care for her live stock, economically use her forests, drive her machinery, harness up her water powers and manufacture her iron and other products. The men who can do this *best* will be those who will qualify themselves for the work by a course in the Agricultural and Mechanical College.

There can be no rivalry between this College and other institutions of learning for the colored race in North Carolina. The paths to be pursued lead in different directions.

The Agricultural and Mechanical College for the Colored Race is unsectarian, and is under the control of no particular denomination. Religious and moral training will receive the closest attention, and students will be required to attend churches of which they are members. Ministers of all denominations are invited to interest themselves in the religious welfare of the College.

The College, broad in its purpose, practical in its work, elevating in its influences, is intended to assist and strengthen the colored people in *all* their efforts for industrial and intellectual advancement. As such its peculiar mission must commend it to the intelligent colored men and women of the State, from whom the Trustees and Faculty confidently expect such sympathy and support as will enable them to make the College of inestimable value to the people for whom it was instituted, as well as to the government by which it is fostered.

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### Location.

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It is most fortunate for the colored people that their Agricultural and Mechanical College was located in the prosperous and growing city of Greensboro. Its unsurpassed railroad facilities place it in rapid and direct communication with nearly all sections and make it the most accessible town in the State. From almost every section of the State Greensboro can be reached without change of cars. With the North Carolina Railroad, the Northwestern North Carolina Railroad, the main line of the Southern Railway and the Atlantic and Yadkin Rail-



SEPARATING MILK.



DAIRY WORK.



WATER ANALYSIS.



SOIL AND FODDER ANALYSIS.



way, Greensboro is a railroad centre, with forty daily train arrivals and departures, which add greatly to the comfort and convenience of students and the traveling public generally.

Possibly nowhere in the State do as kindly inter-racial feelings exist and as friendly an attitude on the part of the white citizens toward Negro education obtain as among the liberal-minded people of Greensboro. On every hand local sentiment is found to be kind, encouraging and responsive. Parents, educators and public men generally can possibly more confidently appreciate the friendly and liberal feeling prevailing in Greensboro by reverting to the significant fact that when the question of subscribing \$8,000 for the location of this institution in Greensboro was submitted to its citizens but one man voted in opposition thereto.

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### Admission.

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The requirements for admission into the Agricultural and Mechanical College, which is the complement of the public schools of the State for the colored people, have been regulated by the average scholarship of the advanced students of these schools.

Applicants must be in good health and not under 14 years of age; must understand fairly well the forms and rules of the English language; must be familiar with arithmetic, and have a knowledge of geography and history.

An applicant who is unable to enter the Freshman Class may be allowed to enter the Preparatory Department, which will prepare him to pass the required examination for admission to the regular College Course.

Any student wishing to enter the Sophomore or any higher class, omitting the earlier classes, will be required to stand such examination as will show ample preparation for such class as he may wish to enter.

A student otherwise qualified may be allowed to elect certain studies from the regular courses already provided in the College if no inconvenience result to the regular classes.

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### Tuition.

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Tuition is one dollar per month of four weeks, payable in advance. A limited number of students from each county will be allowed free

tuition. A student in this class must procure from his county representative in the Legislature a recommendation or endorsement and also from the Examiner of his county a certificate setting forth that the applicant has passed an examination equivalent to that required of a second-grade teacher. No special examination will be prepared by the College for such students; a person desiring admission as a county student shall exhibit this statement to the Examiner for information and pay such fee as may be required for the examination. Each county will be allowed one county student and more according to its colored population. The number of free-tuition students accredited to a county, if not exhausted by September 1, will be transferred to counties where the applications are in excess of the accredited quota. For this reason persons who have passed the examination should at once forward their certificates to the President and signify their intention of attending at the beginning of the Fall Term. For further information on this subject address the President.

### Expenses.

Although it is the aim of the College to furnish as much employment as possible to assist students in defraying expenses, no promise or guarantee can be made in advance to furnish such work.

Positively no student will be allowed to enter any department of the College without paying in CASH the first month's expenses, as stated below.

No student should expect to enter any department of the College unless he has at least one-half the total amount necessary to defray his expenses during the time of his attendance.

#### MONTHLY PAYMENTS.

Laundry service, per month of four weeks . . . . .	\$ 75
Instrumental Music, per month of four weeks . . . . .	1 00
Tuition, per month of four weeks . . . . .	1 00
Lodging—use of room, bedding, etc., per month of four weeks . . . . .	1 00
Board, per month of four weeks . . . . .	5 00

#### SPECIAL PAYMENTS.

Use of Piano by students taking Music, per session . . . . .	\$1 00
Incidental Deposit. . . . .	1 00
Medical Fee . . . . .	1 00
Laboratory Fee, per term . . . . .	25
Workshop Fee, per term . . . . .	25

THESE CHARGES ARE PAYABLE STRICTLY IN ADVANCE.

Students at the time of the advance payments will be given tickets, which will admit them to class-rooms, workshops and dining-hall.

#### SCHOOL MONTH AND PAY DAYS.

October 1, 1900, amount due, including Incidental Deposit and Medical Fee . . . . .	\$9 00
October 29, 1900, amount due . . . . .	7 00
November 26, 1900, amount due . . . . .	7 00
December 24, 1900, amount due . . . . .	2 00
January 2, 1901, amount due . . . . .	7 00
January 30, 1901, amount due . . . . .	7 00
February 27, 1901, amount due . . . . .	7 00
March 27, 1901, amount due . . . . .	7 00
April 24, 1901, amount due . . . . .	7 00
May 22, ending May 30, 1901, amount due . . . . .	2 25

In addition to the above expenses the cost of text-books must be considered. This will amount to about \$10 per year. The Sophomores in the Agricultural and Mechanical Course require a set of drawing instruments, costing from \$5 to \$10.

Free tuition, or county, students will pay \$1 per month less than the above.

There will not be any reductions for less than two weeks.

Board, lodging, tuition, medical and incidental fees must be paid to the Bursar before the rooms are assigned and tickets of admission to class-rooms, workshops and dining-hall are issued.

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### Supplies.

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Each student must bring a hairbrush and comb, a change of sheets and pillowcases and two counterpanes, plainly marked.

All students must furnish oil, lamp-chimneys, books, stationery, drawing pencils, thumb tacks and medicines. Arrangements will be made for these at lowest cost.

Each student must keep on deposit \$1 to cover any damage which may be made against him for damage done.

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### Rules Governing Classification.

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I. No student shall be classed at the beginning of any year in any class unless he has passed in three-fourths of the subjects leading to that year and has not failed in any subject.



II. Students making 70 per cent. and over shall be marked "passed"; 85 per cent. and over "honorable". A student failing to make 70 per cent. but not less than 50 per cent. shall constitute a "failure".

III. Conditions must be made up within two terms, otherwise such conditions shall be considered as failures.

IV. Failures must be taken over in class.

V. Students will be examined during the first and last weeks of any term to remove conditions.

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### Special Students.

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Persons desiring to take a special course along industrial lines may do so, provided it does not interfere with the regular work of the College, and provided, in the judgment of the faculty, such persons are prepared to take the desired course.

Special students boarding at the College must take at least 25 hours per week, 10 hours of which must be industrial work, for which they will be allowed no pay.

Students taking any regular course and who have failed in any subject shall be considered special students until such failures shall have been made up. Such students shall not be permitted to take any subject depending upon the subject in which they have failed.

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### Graduation.

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Students graduating from the Preparatory Course are entitled to Certificates which permit them to enter in the Freshman Class without an examination.

Students are entitled to a Diploma of the College upon the completion of one of the prescribed courses.

Candidates for graduation in the Agricultural Course, in addition to the work outlined in the Catalogue, must have practical experience in field work, either at the College or elsewhere, as shall appear in reports from responsible parties.

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### Degrees.

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Students graduating from the Agricultural Course shall be entitled to the degree of Bachelor of Agriculture.

Students graduating from the Architectural, Mechanical or Woman's Course shall be entitled to the degree of Bachelor of Science.

## General Information.

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Students desiring assistance in defraying expenses, as far as possible, will be allowed to work at the rate of 5 cents per hour, for which they can get credit each month at the time of their advance payment.

Students who have shown themselves exceptionally efficient, willing and trustworthy workers may, at the discretion of the faculty, receive a maximum rate of 7 cents per hour.

Students receiving aid by labor which they may secure at the College are particularly requested to observe: (a) That credit on school expenses only and not money will be allowed for student labor; (b) that credit for student labor will be allowed only on account of board, lodging and tuition, and (c) that credit cannot be transferred from one student to another.

Students, upon their arrival in Greensboro, must report immediately to the President for a permit for examination and registration.

Each student, upon applying for admission, will be required to sign a pledge, binding obedience to the rules of the College. Parents and guardians are particularly requested to examine our Rules and Regulations to be found on another page of this Catalogue.

It will be the purpose of the College to maintain a high moral tone and to develop a broad, tolerant religious spirit among the students. In this connection there is a well-organized Y. M. C. A. and Y. P. S. C. E., which meet twice a week for song and praise. A special service will be conducted in the chapel each Sunday by pastors representing the different denominations of the city. All religious services will be free from sectarianism.

On the payment of the required \$1 annual fee, each student will receive the careful attention of the College physician. By this method the best medical advice is secured at a minimum cost. The physician will make visits daily, or oftener, to students confined to their rooms.

There are two flourishing literary societies, which greatly stimulate the development of character and the training of the intellect. These offer facilities for practice in debate, oratory, declamation and essay writing, the members become practically familiar with parliamentary law and usage. While the Faculty, by presence and advice, will seek to encourage these societies, membership will be optional. The Faculty will also encourage the organization of technical societies, in which special subjects, in connection with agriculture, mechanics and chem-

istry, will be considered in a manner conducive to independent thought and research.

Special attention will be given to Vocal and Instrumental Music.

Students whose parents or guardians do not live in Greensboro or its immediate vicinity will be required to room and board in the College—except when the consent of the Faculty has been secured by the written request of the parent or guardian. Consent will only be given, however, when the judgment of the Faculty directs that it can be done with safety, as the College cannot, nor does it desire to, wholly rid itself of the responsibility out of school hours of the conduct of students who do not room and board in the College.

The industrial part of each course of instruction applies to all students, *and none will be excused therefrom.*

All communications relating to the College should be addressed to “The President of the Agricultural and Mechanical College for the Colored Race, Greensboro, North Carolina.”

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### Library and Reading Room.

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A large and convenient room on the second floor in the main building has been arranged for a Library and Reading Room. The books have been purchased with great care and new ones are being added from time to time.

Col. T. B. Keogh, a member of the Board of Trustees, made a valuable donation of books to the Library.

Reading rooms are also provided in the Agricultural and Mechanical buildings, where technical journals and books are kept for the convenience of students in these departments.

The Reading Room and Library tables are supplied with some of the best periodicals and the leading newspapers of the State. The students of the College are allowed to borrow books, periodicals and papers under necessary limitations. The Library and Reading Room is open every week-day from 9 a. m. to 1 p. m. and from 3 to 6 p. m.

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### Industrial Museum.

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An Industrial Museum has been started and already valuable material has been collected. A number of donations have been made by



several firms. We are especially indebted to the Standard Oil Company, of Chicago, Ill., and to the German Kali Works for important series of samples illustrating the manufacture of gasoline, petroleum and lubricating oils of all grades; also for typical potash salts from the famous Stassfurt mines in Germany. The American Enamelled Brick and Tile Company have also sent us a number of fine specimens of tile, brick and terra cotta goods.

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### Rules and Regulations.

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1. The signal for rising will be given at 6 a. m. Dressing and arranging rooms, 6 to 6:30 a. m. Morning prayers, 6:30 to 6:45 a. m. Study, 6:45 to 8:15 a. m. Breakfast, 8:15 to 8:45 a. m. Class work, 9 a. m. to 1 p. m. Dinner, 1 to 2 p. m. Class practice work, 2 to 4 p. m. Recreation, 4 to 6 p. m. Supper, 6 to 6:30 p. m. Study, 6:30 to 9 p. m. Prayers, 9 to 9:30 p. m. Retiring signal, 9:45 p. m. Lights out, 10 p. m.

2. Strict attention must be given to cleanliness and deportment. Each student is required to keep his room in good order and subject to inspection at any time, and to conduct himself at all times in a gentlemanly manner. To attain and maintain a high moral standard is one of the prime objects of this institution, and any student known to have vicious habits or to indulge in vulgar language will be deemed an unfit associate and will be expelled from the College. Mendacity or dishonesty in any form will not be tolerated. Students guilty of such offences will be promptly dismissed.

3. Students shall promptly attend prayers and chapel services and all specific recitations, class and instruction work. Tardiness, or absence from these duties, will, when not excused, subject a student to demerits. Loitering within the main building by the students is prohibited.

4. Students who interrupt the quiet and order of College life by noises in or near the buildings, or who commit intentional damage to College property, or who make nuisance by throwing slops near the buildings or otherwise, will not be allowed to room on the grounds.

5. Students who persistently absent themselves from chapel and class work, or who persistently neglect College duties, or who engage in drinking, card playing or other vices, or who absent themselves from College grounds contrary to the Rules and Regulations, are not regarded as desirable companions for industrious and meritorious students, and will not be allowed to continue as students in the College.

6. Students must attend some church on Sunday morning. Parents or guardians should designate to the President of the College what church they wish their children or wards to attend.

7. No student will be allowed to have upon his person, in his room or in the College buildings, or upon or in the neighborhood of the College grounds, any deadly weapon. A student in whose possession such a weapon is found will be expelled from the College.

8. The use of tobacco, spirituous, malt or vinous liquors in any form by the students is prohibited on, or in the neighborhood of, the College grounds, or in the buildings. Students are forbidden to enter any disreputable house, including places where intoxicants are sold, while absent from the College grounds.

9. Students are forbidden to go upon the roofs of buildings, or to enter or depart from buildings through windows, and they are also forbidden to enter the kitchen, store-rooms or pantry. Students are prohibited from entering the dining-room, except at meal time.

10. Strict discipline will be enforced in the dining-room during meals. Students guilty of ill-mannered conduct in act or speech will be removed from the dining-room and punished for insubordination. It is made the duty of the Matron to observe students during meals; instruct them in table manners, and report to the President of the Board of Trustees, and also to the President of the College, bad conduct of any kind or nature in the dining-room, with the name or names of the student or students.

11. It is forbidden students to receive visitors in the dormitory building. At all times the students shall deport and express themselves respectfully toward the Faculty and every member of it, and also toward their fellow-students. Any deficiency in this particular will be punished. A student failing to respond to reasonable demands made by any member of the Faculty shall be held guilty of contempt of authority and punished accordingly. No student will be retained after he has received one hundred demerits in one year.

12. A student cannot remain in good standing in any department when dismissed from another.

13. No diploma shall be given to any student who is in debt to the College. Each graduate must pay for his diploma.

14. Any student found guilty of any species of dishonesty shall be dismissed or expelled at the discretion of the Faculty.

By order of

THE BOARD OF TRUSTEES.



GREENHOUSE WORK.



MAKING CUTTINGS.



CLASS IN BOTANY.



GRAFTING AND POTTING ROOM.



GREENHOUSE.



MILK TESTING



CLASS IN CHEMISTRY OF COOKING.



## Prizes.

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THE DUDLEY PRIZE.—A prize of sixteen dollars, payable in eight installments on board and lodging, to the student who makes the highest general standing in his studies during the preceding session.

THE MOORE PRIZE.—A prize of twelve dollars, to be paid in eight equal installments, at the end of each month of the school year, to that student who makes the highest general mark in his or her entrance examination. The following conditions govern the bestowal of this prize: First, the student wishing to enter the contest *must be present* at the preliminary examinations September 28, 29, 1900, at the opening of the Fall term; secondly, the student, in order to be considered an eligible applicant for the prize, must make a general average of 75 per cent., at least, in the examination.

THE HAGANS PRIZE.—Prof. H. E. Hagans, Principal of State Normal School at Goldsboro, offers a gold medal to the member of the Senior Class who writes the best essay on "The Literary Career of Byron."

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## Religious Culture.

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While the College is not a denominational institution, proper attention is given to the cultivation of a broad, liberal Christian spirit. Short devotional exercises are held morning and evening of each day, which are attended by the boarding students. At 8:45 each school morning short devotional exercises are attended by all students. In the direction of religious culture, in addition to these very brief meetings and the fuller meetings of the Y. M. C. A., during the past session we have enjoyed a splendid series of instructive and spiritual sermons, for which we are indebted to the following-named reverend gentlemen:

Rev. L. Johnston, Baptist Church (white), Greensboro.

Rev. S. A. Peeler, Methodist Episcopal Church, Greensboro.

Rev. W. J. Jordan, A. M. E. Church, Asheville.

Rev. C. E. Hodgins, Presbyterian Church (white), Greensboro.

Rev. B. B. Hill, Baptist Church, Reidsville.

Rev. J. P. Morris, Bennett College.

Rev. L. A. Wood, Bennett College.

Rev. W. H. Goler, D.D., President Livingstone College, Salisbury,

## Agricultural Course.

### FRESHMAN YEAR.

FALL TERM.	Hours per week.
Algebra .....	5
English .....	5
History .....	3
Shop Work .....	6
Physiology .....	5
Agriculture .....	4
Industrial Drawing .....	4

WINTER TERM.	Hours per week.
Algebra .....	5
English .....	5
History .....	3
Industrial Drawing .....	4
Shop Work .....	6
General Chemistry .....	6

SPRING TERM.	Hours per week.
Algebra .....	5
English .....	5
History .....	3
Industrial Drawing .....	4
Shop Work .....	6
Physical Geography .....	3
General Chemistry .....	6

### SOPHOMORE YEAR.

FALL TERM.	Hours per week.
Geometry .....	5
English .....	5
Physics .....	3
History .....	2
Botany .....	5
General Chemistry .....	6

WINTER TERM.	Hours per week.
Geometry .....	5
English .....	5
Physics .....	3
Horticulture .....	2
Dairying .....	5
History .....	2
Handicraft .....	6
Qualitative Analysis .....	4

SPRING TERM.	Hours per week.
English .....	5
Geometry .....	5
Physics .....	3
History .....	2
Botany .....	5
Dairy Practice .....	7
Field Crops .....	4
Road Construction .....	2

### JUNIOR YEAR.

FALL TERM.	Hours per week.
Solid Geometry .....	5
English .....	5
Pomology .....	3
Breeding .....	3
Qualitative Analysis .....	4
Farm Accounts .....	4
Physics .....	2

WINTER TERM.	Hours per week.
Trigonometry .....	5
English .....	5
Landscape Gardening .....	3
Soil Physics .....	4
Agricultural Chemistry .....	5
Farm Accounts .....	4
Physics .....	2
Farm Engineering .....	5

SPRING TERM.	Hours per week.
Surveying .....	6
Civics .....	3
Entomology .....	3
Meteorology .....	2
Feeding .....	5
Physical Laboratory .....	4
Agriculture .....	3

### SENIOR YEAR.

FALL TERM.	Hours per week.
Logic .....	3
Plant Diseases .....	6
Zoology .....	3
Soils and Fertilizers .....	5
Quantitative Analysis .....	10

WINTER TERM.	Hours per week.
Political Economy .....	3
Plant Diseases .....	6
Veterinary Science .....	5
Geology .....	5
Quantitative Analysis .....	10

SPRING TERM.	Hours per week.
Ethics .....	3
Poultry .....	5
Agricultural Economics .....	3
Thesis .....	20

## Mechanical Engineering Course.

### FRESHMAN YEAR.

FALL TERM.	Hours per week.
Algebra .....	5
English .....	5
History .....	3
Physiology .....	2
Agriculture .....	4
Shop Work .....	6
Industrial Drawing .....	4

#### WINTER TERM.

Algebra .....	5
English .....	5
History .....	3
Industrial Drawing .....	4
General Chemistry .....	6
Shop Work .....	6

#### SPRING TERM.

Algebra .....	5
English .....	5
History .....	3
Industrial Drawing .....	4
Physical Geography .....	3
Shop Work .....	6
General Chemistry .....	6

### SOPHOMORE YEAR.

FALL TERM.	Hours per week.
Geometry .....	5
English .....	5
Physics .....	3
Mechanical Drawing .....	8
Shop Work .....	6
History .....	2

#### WINTER TERM.

Geometry .....	5
English .....	5
Physics .....	3
Mechanical Drawing and Projection .....	8
Shop Work .....	6
History .....	2

#### SPRING TERM.

Geometry .....	5
English .....	5
Physics .....	3
Machine Drawing .....	8
Shop Work .....	6
History .....	2

### JUNIOR YEAR.

FALL TERM.	Hours per week.
Solid Geometry .....	5
English .....	5
Machine Drawing .....	8
Physics .....	2
Shop Work .....	6
Bookkeeping .....	6

#### WINTER TERM.

Trigonometry .....	5
Chemistry .....	6
Machine Drawing .....	8
Physics .....	2
English .....	5
Shop Work .....	6
Bookkeeping .....	4

#### SPRING TERM.

Surveying .....	6
Physical Laboratory .....	4
Machine Drawing .....	4
English .....	5
Shop Work .....	6
Mechanics .....	2

### SENIOR YEAR.

FALL TERM.	Hours per week.
Mechanism .....	5
Steam Engineering .....	2
Machine Drawing .....	8
Shop Work .....	6
Logic .....	3
Strength of Materials .....	1
Metallurgy of Iron .....	2

#### WINTER TERM.

Mechanism .....	5
Steam Engineering .....	5
Machine Drawing .....	8
Shop Work .....	6
Political Economy .....	3

#### SPRING TERM.

Gearing and Machine Tools .....	5
Ethics .....	3
Shop Work .....	6
Thesis .....	20

## Architectural Course.

### FRESHMAN YEAR.

#### FALL TERM.

	Hours per week.
Algebra .....	5
English .....	5
History .....	3
Physiology .....	5
Agriculture .....	4
Show Work .....	6
Industrial Drawing .....	4

#### WINTER TERM.

Algebra .....	5
English .....	5
History .....	3
Industrial Drawing .....	4
General Chemistry .....	6
Shop Work .....	6

#### SPRING TERM.

Algebra .....	5
English .....	5
History .....	3
Industrial Drawing .....	4
Physical Geography .....	3
Shop Work .....	6
General Chemistry .....	6

### SOPHOMORE YEAR.

#### FALL TERM.

	Hours per week.
Geometry .....	5
English .....	5
Physics .....	3
Mechanical Drawing .....	8
Shop Work .....	6
History .....	2

#### WINTER TERM.

Geometry .....	5
English .....	5
Physics .....	3
Mechanical Drawing & Projection .....	8
Shop Work .....	6
History .....	2

#### SPRING TERM.

Geometry .....	5
English .....	5
Physics .....	3
Building Material and Construction .....	8
Shop Work .....	6
History .....	2

### JUNIOR YEAR.

#### FALL TERM.

	Hours per week.
Solid Geometry .....	5
English .....	3
Building Construction .....	8
Physics .....	2
Bookkeeping .....	6
Shop Work .....	6

#### WINTER TERM.

Trigonometry .....	5
Building Construction .....	8
Physics .....	2
English .....	5
Shop Work .....	6
Mechanics .....	2
Bookkeeping .....	4

#### SPRING TERM.

Surveying .....	6
Physical Laboratory .....	4
Architectural Designing .....	6
English .....	5
Shop Work .....	6
Mechanics .....	2

### SENIOR YEAR.

#### FALL TERM.

	Hours per week.
Logic .....	3
Strength of Materials .....	1
Plumbing .....	3
Architectural Designing .....	14
History of Architecture .....	2
Shop Work .....	6

#### WINTER TERM.

Political Economy .....	3
Steam and Hot Water Heating .....	5
Architectural Designing .....	14
Shop Work .....	6
Geology .....	5

#### SPRING TERM.

Ethics .....	3
Shop Work .....	6
Architectural Designing .....	6
Ventilating .....	2
Thesis .....	20



## Women's Course.

### FRESHMAN YEAR.

FALL TERM.	
	Hours per week.
Algebra .....	5
English .....	5
History .....	3
Domestic Science .....	6
Physiology .....	5
Music .....	2
Industrial Drawing .....	4

#### WINTER TERM.

Algebra .....	5
English .....	5
History .....	3
Free-Hand Drawing .....	4
Domestic Science .....	6
General Chemistry .....	6
Music .....	2

#### SPRING TERM.

Algebra .....	5
English .....	5
History .....	3
Free-Hand Drawing .....	4
General Chemistry .....	6
Physical Geography .....	3
Music .....	2
Domestic Science .....	6

### SOPHOMORE YEAR.

FALL TERM.	
	Hours per week.
Geometry .....	5
Free-Hand Drawing .....	4
English .....	5
Physics .....	3
History .....	2
Plain Sewing .....	3
Botany .....	5
Music .....	2
General Chemistry .....	6

#### WINTER TERM.

Geometry .....	5
Free-Hand Drawing .....	5
English .....	5
Physics .....	3
Horticulture .....	2
Dairying .....	5
Cutting and Fitting .....	2
Music .....	2
Qualitative Analysis .....	4

#### SPRING TERM.

Geometry .....	5
English .....	5
Physics .....	3
History .....	2
Botany (Geographical) .....	3
Dairy Practice .....	6
Free-Hand Drawing .....	4
Music .....	2
Qualitative Analysis .....	4

### JUNIOR YEAR.

FALL TERM.	
	Hours per week.
Solid Geometry .....	5
English .....	5
Pomology .....	3
Bookkeeping .....	6
Physics .....	2
Household Economy .....	4
Music—Vocal .....	2

#### WINTER TERM.

Trigonometry .....	5
English .....	5
Landscape Gardening .....	3
Chemistry of Cooking (Lectures) ..	5
Bookkeeping .....	4
Physics .....	2
Millinery .....	5
Music—Vocal .....	2

#### SPRING TERM.

Civics .....	5
Entomology .....	3
Meteorology .....	2
Physical Laboratory .....	4
Chemistry of Cooking (Laborat'y)	4
Sewing .....	6
Music .....	2

### SENIOR YEAR.

FALL TERM.	
	Hours per week.
Logic .....	3
Plant Diseases .....	6
Zoology .....	3
Cooking .....	4
Sewing .....	2
Designing .....	6
Music .....	2

#### WINTER TERM.

Political Economy .....	3
Plant Diseases .....	6
Geology .....	5
Designing .....	4
Sewing .....	6
Music .....	2

#### SPRING TERM.

Ethics .....	3
Poultry .....	5
Designing .....	4
Sewing .....	4
Music .....	2
Thesis .....	10

## Department of Agriculture and Chemistry.

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JOHN THOMPSON, Head of Department.

D. A. WILLISTON, Assistant.

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In this department thoroughly practical instruction is given in the various arts and sciences pertaining to agriculture, so as to enable the student to intelligently understand the nature of soils, fertilizers, plant growth, feeding, breeding, farm drainage, irrigation methods of cultivation, plant and animal diseases, etc. We aim to train not only the hand and the eye, but we endeavor also to train the mind; in other words, we train the youths to become rational farmers.

All our class-room work finds its complement either in the field, the garden, the greenhouse, the orchard, the barn, the dairy or the chemical laboratory.

### Equipment.

Recognizing the importance of good farm machinery and labor-saving devices, the College has purchased and received as donations from a number of firms a considerable amount of farm machinery, such as several different kinds of plows, harrows, cultivators, an Empire seed drill, with fertilizer and grass seed attachments; an Empire corn drill, with fertilizer attachment; machinery for market gardening and various other implements.

We are especially indebted to the Chattanooga Plow Works, Chattanooga, Tenn.; The Empire Drill Company, Chesterville, N. Y.; M. G. Newell & Co., Greensboro, N. C., and others for their liberality toward us and the keen interest which they have shown in our industrial work.

The dairy is well equipped with modern apparatus for butter making—such as a United States Cream Separator, six Acme Bail Churns, one Davis Swing Churn, six Lever Butter Workers, one Eclipse Refrigerator, a Boyd Cream Ripening Vat, a Babcock Milk Test Machine, etc., thus enabling us to offer the very best course in butter making. Presumably, apparatus and utensils for cheese making will be added the next session.

The farm, consisting of 125 acres, is also equipped with a splendid herd of pure bred and grade Jersey cows, which will be increased just so soon as circumstances will allow.

Different crops—such as wheat, oats, cow peas, sugar beets, sor-

ghum, millet, mangel wurzel, potatoes, tobacco, beans, alfalfa and various other forage crops, etc., are grown on the farm and the student obtains practical experience in the cultivation of such crops with the latest and best farm machinery.

Experiments are also being carried on on the farm, illustrating the effect of different methods of cultivation and fertilization on different crops. Variety tests are also made. This experiment work is carried on by the students in the advanced classes.

The greenhouse is maintained to aid the student in the study of botany and care of flowers. Instruction is also given in the management of a greenhouse on a commercial scale.

Market gardening is practiced on a small scale for the purpose of giving the student practice in the management of early truck lands.

The chemical laboratory is well equipped with suitable apparatus and necessary chemicals for the study of general as well as agricultural chemistry.

Among the most expensive apparatus may be mentioned Hoffman's apparatus for decomposition and recombination of water, fat extraction apparatus, chemical balances, soil analysis apparatus, hot plates, copper, air and water baths, apparatus for analysis of baking powders, water analysis, etc.

In short the equipment of the department is first-class in every respect, and in some lines it is perhaps second to that of no institution in the State.

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### Character of Instruction.

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The study of elementary principles of agriculture is begun in the fall term of the Freshman year.

Class-room work is illustrated by means of experiments illustrating osmosis, capillary attraction, composition of plants, how the plant obtains its food from the air and the soil, the effect of sunlight, heat and moisture on germinating seeds, etc.

The object of this term's work is to give the student a sort of a bird's-eye view of agriculture in general. Text book, "First Principles of Agriculture," by Voorhees.

*Breeding and Breeds of Live Stock.*—This subject is taught principally by means of lectures. The College herd serves to illustrate typical milk cows. Other herds are visited during the term's work so as to acquaint the student with as many breeds of live stock as possible.

*Feeding.*—This is taught by text book and lectures and is supplemented by practical experiments in feeding dairy cows, poultry and swine. Drill is given in making out rations for different animals.

*Farm Engineering.*—Subjects like farm drainage and irrigation, the instruction and maintenance of roads and the construction of farm buildings are considered.

*Soils and Fertilizers.*—In this work special attention is given to a study of different types of soils, the manufacture of commercial fertilizers and their relation to agriculture, care of barnyard manure, etc. A great deal of attention is also given to a study of the relation of humus to soil fertility.

*Farm Accounts.*—Realizing the great importance to the farmer of keeping some system of accounts on the farm, a thorough course is given in bookkeeping, especially designed to meet the wants of the practical agriculturist.

*Dairying.*—The work in dairying is begun with lectures on elementary dairy bacteriology and chemistry and completed in the dairy with practical work in butter and cheese making, milk testing, detection of adulterants in milk, butter and cheese.

*Poultry Raising.*—So far this is taught wholly by means of lectures. It is hoped that a poultry house may soon be built where everything given in the lectures may be illustrated and put into practice. In that event practice in the management of incubators will be given to each student pursuing this course.

*Veterinary Science.*—Lectures are given on the diseases of farm animals and remedies are discussed. Some practical work is afforded the student in testing cattle for tuberculosis.

Entomology, Anatomy and classification of insects are discussed. Special attention is given to the more important insect pests, with methods for combating them. Text book.

*Physical Geography.*—Lecture and recitations. The lectures are illustrated by lantern slides.

*Geology.*—Laboratory work and recitations. The different groups of rocks of the earth's crust are discussed. Text book.

*Meteorology.*—Text book, Waldo's Elementary Meteorology.

*Propagation of Plants.*—The instruction in this work deals with the pollination and breeding of plants, grafting, budding, making cuttings, etc. Text book, supplemented by lectures.

*Pomology.*—The work in pomology deals with principles of fruit-growing, cultivation and fertilization for market gardening purposes.





MECHANICAL BUILDING.



CARPENTRY.



SEWING



CUTTING AND FITTING.

*Landscape Gardening.*—The lectures on this subject are illustrated by means of a large number of lantern slides.

*Agricultural Economics.*—Lectures are given on agricultural production; imports and exports; the relation of agriculture to other industries, value of land and prices of products.

*Chemistry.*—This study is begun with Elementary Inorganic Chemistry. Text book, Remsen's Briefer Course, supplemented by lectures and laboratory work.

*Qualitative Analysis* is begun after the student has completed the course in General Chemistry. Text book, Appleton's Qualitative Analysis.

*Quantitative Analysis* is begun after the work in Qualitative Analysis has been completed. It consists in the analysis of fertilizers, soils, feeding stuffs, butter, etc.

*Agricultural Chemistry.*—Under this head are taught the chemical changes that occur in plants from the time the seed is put in the ground until the crop is harvested, the changes that occur in the process of digestion and finally the changes that take place in the manure, preparing it again to nourish another crop.

The function of the different elements that enter into the composition of plants is discussed.

*Chemistry of Cooking.*—This course is open to those who have completed the course in General Chemistry.

The chemical composition of the various materials used for human food, the changes that occur in meats during frying, roasting and boiling is studied. A great deal of attention is given to the chemistry of bread baking, testing of baking powders, etc.

*Handicraft.*—This is a course open to all students at any time. It consists of practical work in the greenhouse, barn or dairy, for which no pay will be allowed until the student has served a sufficient length of time, after which he will be allowed compensation, provided he can perform such work to the satisfaction of the professor in charge.

## Department of Mechanical Engineering and Architecture.

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HUGO DIEMER, Head of Department.

GEO. C. SNOW,  
I. S. CUNNINGHAM, } Assistants.  
BURK HAYWOOD, }

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"There are two most valuable possessions which no search warrant can take away, nor reverse of fortune destroy. They are what is put into the brain, knowledge, and into the hand, skill."

The work in this department is designed to give the student such a combination of knowledge and skill that he may be something more than an ordinary mechanic or an impracticable theorist.

From the beginning of the Freshman year the time is divided between the lecture room, draughting rooms and shops. Students will be given an opportunity of visiting the various manufactories in and around Greensboro, and every lecture and exercise will be illustrated so far as possible, and the practical application pointed out.

It is recognized at the outset that a knowledge of how to make and read drawings is necessary to success in mechanical work, and further that both practical knowledge and mathematical science are necessary in preparing any reliable drawing or interpreting the same. The courses as laid down are designed to make the student familiar with either machine shop practice, or building design and construction.

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### Equipment.

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This department is well equipped for the work in hand and other machinery will be added from time to time as required.

The department building is a substantial modern structure, two stories and basement. On the first floor are the joinery, wood-turning shop, machine shop and model room; in the basement of the rear wing is the smith shop, paint shop, wood-working machine shop, with stock room, and adjoining this is the boiler and engine rooms. The office, lecture room, apparatus room, reading room and drawing rooms are on the second floor. The equipment in the physical department consists of an Atwood's machine, air pump and accessories, port Lummere for projection, variety of batteries and electrical instru-



ments, compound microscope, balances, pulleys, pumps, sonometer and a general assortment of apparatus for the lecture table.

The lecture room can be made dark at a moment's notice and the sunlight used to illustrate on a permanent screen. Water and power are at hand for use, also gas. A dark room is fitted up for photographic use and for experiments requiring it.

In mechanics, a full collection of materials of construction will be provided so that students can study them from observation as well as from text. A museum of models in mechanism and construction has been begun and will be added to as required. A reading room is provided in the building, well supplied with books of reference and technical journals. This is open at all times to the students. The equipment in drawing consists in tables, drawing boards and T squares. Students will provide themselves with instruments, which will be arranged for at lowest rates; also paper, pencils, ink, etc.

In free-hand drawing a full set of models and a sufficient number of tables is provided. Alcoves are arranged for teaching shading, and the rooms are well lighted and heated.

The wood-working shop is equipped with twelve double benches, provided with patent vises and stops, twenty-four complete sets of joiners and wood-turners' tools. Each set is arranged in a neat wall case, having a glass door and combination lock. Each student in wood-working has a set of tools and is responsible for them. There is also a large case of tools for the instructor and for general use. The shop is also supplied with a 36-inch band saw, a surface planer, a universal wood worker, with attachments for sawing, ripping, dadoing, jointing, tenoning and boring, a swing-saw, a pattern maker's lathe, twelve small turning lathes, an emery wheel and grind tone.

The machine shop is equipped with six engine lathes, shaper, drill-press, vises, test plates and a full assortment of hand tools.

The forge shop is equipped with twelve patent, downdraft, Buffalo forges, each having an anvil, sets of tongs, flatters, fullers, etc., also slack tub and coal box. The blast for the forges is supplied by a 40-inch fan, placed in the corner of the shop and connected to the main shaft. The smoke is exhausted by the same fan and forced out at the side of the building. There is also one portable hand forge for use when the machinery is not running. Two work-benches, supplied with vises, stock and dies, taps, files, etc., also a mandrell, sledges and leather aprons complete the equipment in this shop.

The power plant consists of a 30 horse-power Root tubular boiler of latest design and a 35-horse-power Skinner automatic engine of the

latest model, and with all modern improvements. These are installed in the very best manner, and are the best to be had of their kind.

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### **Mathematics.**

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A thorough knowledge of ordinary mathematics is absolutely necessary in order to pursue the scientific work required by the different departments, accordingly three years in the regular college course are devoted to the subject.

The whole of the Freshman year is given to Algebra.

Geometry is begun in the Fall term of the Sophomore year and completed in the Fall term of the Junior year. The work includes both Plane and Solid Geometry. Special importance is attached to original work and to the applications of Geometry to the problems which the student is likely to meet in his chosen work.

The Winter term of the Junior year is devoted to Trigonometry, the work being confined largely to the solution of plane figures. During the Spring term of the same year the students are given a brief course in Surveying, most of the time being spent in practical work on the farm.

The work in Mathematics is the same for all courses.

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### **Physics.**

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During the Sophomore year three hours per week are given to lecture and recitation work in Physics, and two hours per week are devoted to the subject during the Fall and Winter terms of the Junior year. The work is illustrated by experiments and practical problems wherever possible. Special importance is attached to the explanation and study of the more common phenomena. During the Spring term of the Junior year four hours per week are devoted to Physical Laboratory work.

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### **Steam Engineering.**

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This course takes up the study of the details of construction of the best types of engines and boilers with all of their accessories. A considerable part of the time is taken up with the calculations necessary for the design and operation of the same. The work is made more practical by giving the students, in turn, the care of the College engine and boiler.

### **Mechanism.**

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This course takes up the study of various mechanisms, together with the calculation and design of some of the most useful forms. Special attention is paid to Gearing and Machine Tools. This course is accompanied by work in the drawing room in machine design.

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### **Architecture.**

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The work in Architecture begins in the Sophomore year with a course of lectures in methods and materials of construction. This is accompanied by work in the drawing room. This course is intended to familiarize the student with the treatment and uses of the different varieties of lumber, brick, stone, etc., also with the details of framing, outside and inside finishing, especially of houses of moderate cost.

The above course is followed by lectures on the different orders of architecture and their application to modern building practice. The remainder of the work is of the same sort but more advanced, the work being upon the better class of dwellings and unpretentious public buildings.

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### **Plumbing, Heating, Etc.**

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During the Senior year the class is given instruction in the various methods of house plumbing, in steam and hot water heating, and in the different systems of ventilation as applied to dwellings and public buildings.

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### **Drawing.**

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One of the most important subjects taken by our students is the free-hand drawing taken during the Preparatory and Freshman years. It not only trains the hand and eye, but it develops the reasoning powers of the students. The work includes the study of lines, perspective shading, sketching of geometrical solids, furniture and plants. There is also special work in lettering and drawing architectural and mechanical subjects.

The first work in mechanical drawing is designed to give the student freedom in the use of instruments and to familiarize him with the application of those principles of geometry which are so essential to the work of the draughtsman. After this preliminary work the student is prepared to take the drawing of either the Architectural or Mechanical Engineering course. In both of these courses the work done in the drawing room is simply the practical application of the principles and general information brought out in the lecture and recitation rooms.

### **Shop-work.**

The work of this department is designed for those wishing to enter the various branches of manufacture and industry, and its aim is to give no more of theoretical engineering work than is essential to men who will enter these industries as workmen and advance to positions as managers, superintendents or business men.

No mechanic can do good work unless he understands how to use his tools and to keep them in good condition. Realizing this the work is so arranged in each of the different courses in shop work so that the student is first taught the use and care of the tools required for that special work through lectures and recitations accompanied by the use of text books.

The student is then required to make a set of models from drawings, afterward to do a certain amount of work from his own design.

The work is so arranged that the principles governing its design and construction are taught in the class room in connection with the practical work which is done in the shop.

Shop work begins with the first year in the Preparatory Department and continues through the whole college course. The work is the same for all courses until the beginning of the Sophomore year.

The work during the two Preparatory and the Freshman years is confined to ordinary joinery work and forging.

The Agricultural students finish their shop work in the Freshman year.

The Architectural students devote the remaining years to wood turning, advanced joinery and cabinet making.

The Mechanical Engineering students devote the remaining three years to advanced forging, chipping and filing and machine-tool work.

1. *Carpentry—Bench-work*—Practice in use of carpentry tools, instruction in joinery, planing, mortising, splicing, framing, etc.

2. *Wood Turning*—Centre and chuck-turning, ornamental cutting, fancy turning.

3. *Pattern Making*—Making of finished patterns and elementary molding, illustrating draft, parting, cores, etc.

4. *Cabinet Work*—Exercises and practice in cabinet work, including paneling, mitre and dove-tail joints, etc.; use of power tools.

5. *Building Construction*—Advanced work in carpentry, including the laying out of rafters, roof trusses, joists, etc., stair building, doors, window frames, etc.

6. *Advanced Building Construction*—Construction of a complete model frame house from student's design and working drawings, the model being constructed to a convenient scale, usually, one-eighth size.

7. *Forging*—Exercises and practice in iron and steel forging, including operations as drawing, bending, forming, upsetting, welding, and the making and tempering of punchers, drills, chisels, lathe tools, springs, etc.

8. *Advanced Forging*—Tool making, tempering, annealing, case-hardening, ornamental iron work, etc.

9. *Chipping and Filing*—Exercises and practice in vise-work, including chipping in cast and wrought iron, surface filing, squaring, fitting, finishing and the scraping of surface plates.

10. *Machine Work*—Exercises and practice in hand-turning in iron and brass on speed-lathes; in straight and taper-turning, boring, fitting, chucking, thread-cutting on engine lathe.

11. *Advanced Machine Work*—Exercises and practice on the lathe, shaper, drill-press, with use of small tools, as drills, taps, dies, reams, counter-borers, etc.; construction of parts of actual machines.

12. *Plumbing*—Practice in soldering and wiping the various types of joints, making bends, traps and other practical work; ventilation, supply-pipes; boilers, tanks, fixtures, etc.

Repair work about the buildings is done by students in this department.

The fact that almost all of our students have had three or at least two years in our Preparatory course, during which time they have spent every afternoon in the week in the shops, gives them considerable manual dexterity by the time they are ready to take up the regular college course. We are therefore not nearly so much handicapped by the lack of mechanical experience on the part of our college students as are the white universities where students enter the college course with no previous shop experience. Our Preparatory School fills to a large extent the place of the secondary manual training high school, the need of which is so strongly set forth in the trade journals of the day.



## Department of English.

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CHAS. H. MOORE, Head of Department.

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The ability to write a clear and elegant English sentence is an accomplishment much to be desired, and it is a recognized fact that English forms an important branch in all well-rounded courses of study.

Therefore the course in this department extends through the entire four years. It is designed to acquaint the students with the essentials of English grammar, the structure of sentences, and so make them thorough English scholars.

To excite and cultivate a taste for good literature, to acquaint the students with the thoughts and writings of the best authors and to form habits of correct expression, a diligent and critical study of standard works containing masterpieces, in prose and poetry, will be required of all students.

The College Library, containing some of the best works in English and American literature, affords splendid facilities for instruction in this department.

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### Freshman Class.

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Having completed the work of the Preparatory Department, students begin the study of the English Language, Composition and Rhetoric with Lockwood's "Lessons in English" as a text book. The end to be accomplished is to familiarize the student with the structure and arrangement of sentences and the fundamental principles of style. It is designed to enable the student to acquire skill in the logical arrangement of his thoughts, and to express them in a clear and forceful manner.

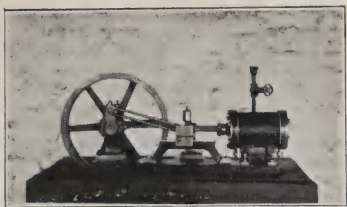
Selections from Irving, Longfellow, Whittier and Holmes are read as introductory exercises to the study of American literature. Weekly rhetorical exercises.

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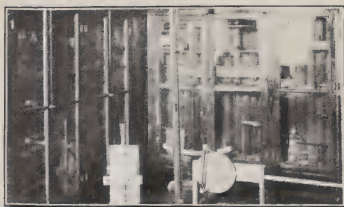
### Sophomore Class.

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In the Fall term of this year the work is similar to that of the Freshman year. Beginning with the Winter term the study of practical rhetoric is commenced. Among the subjects receiving attention are:



SMALL ENGINE.



PHYSICS APPARATUS.



LAUNDRY BUILDING.



OFFICE DESK.



MINIATURE MODEL HOUSE.

PRODUCTS OF STUDENT LABOR.



FREEHAND DRAWING.



MECHANICAL DRAWING.

Diction, Narration, Exposition, Argumentation, Persuasion, and Figures of Speech.

Written productions of the students are read and criticised in the presence of the class. During the year some of the masterpieces of American authors are studied critically.

Weekly rhetorical exercises.

### **Junior Class.**

The study of rhetoric will be continued and completed at the close of the Fall term of this year, after which the class will begin a brief survey of English and American literature; rhetoric as to invention; biographical studies of authors and of events connected with their literary productions.

As an intimate acquaintance with the Constitution of the United States and of one's own State is recognized as an essential to good citizenship, for this reason. Civil Government is studied by the class in this year; also ethics, that the students may have some knowledge of the duties they owe their fellowman.

Weekly rhetorical exercises.

### **Senior Class.**

Select essays and orations of Webster, Calhoun, Bacon, Pitt, Fox, Macauley, Burke and Gladstone analyzed and discussed; class-room exercises and outside work on assigned topics. Critical thesis on Tennyson, Shakespeare and Milton; review.

The study of logic, both inductive and deductive, will be pursued by the class as an aid to correct reasoning. Practical application of what the student learns in this study will be made in testing the validity of arguments and detecting fallacious reasoning.

The present industrial and financial embarrassment shows the importance of a knowledge of economic principles. For this and many other important reasons, the students of this year will also study Political Economy. The relations of capital to labor, the tariff, bi-metalism and other important questions relating to the welfare of our country will be carefully studied and discussed.

The subject of Psychology will be studied in this year.

Weekly rhetorical exercises.

## Department of History.

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JAS. B. DUDLEY, Head of Department.

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It will be the purpose of this department to treat briefly, but as comprehensively as possible, in ancient and modern history, of the great events which indicate the main highway of man's progress and civilization, especial attention being given by lectures and otherwise to the subject of industrial evolution. By attentive study of those historical links—the causes and effects of leading events which mark great epochs, the chronological order of general history will be presented with the purpose of making impressions upon the student's mind that will excite interest and encourage independent reading and reflection.

As this College was established and is sustained by both State and National Governments, it is under special obligations to train its students to become good and patriotic citizens, and since we must know that which we would love and to which we would be loyal, it will be deemed a special mission of the College to give the history of North Carolina and of the United States as thorough study as possible.

The course begins in the Preparatory Department with the History of North Carolina. After the student has acquired a knowledge of his own State he passes to the History of the United States. In the more advanced classes he takes up the study of European and Oriental civilization, ancient and modern history. Throughout the entire course the choice selections of historical works contained in the College Library will prove a valuable auxiliary to the instructor in awakening interest and stimulating desire for historical knowledge, and students will be encouraged to avail themselves of the facilities at hand.



## The Preparatory Department.

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JNO. H. M. BUTLER, Principal.

MARY H. PERRY, } Assistants.  
JAS. M. JOYNER, }

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This department is designed for such persons as are unable to enter the Freshman Class.

The following course is pursued:

*Junior Year*—Reading, Writing, Spelling, Arithmetic, Geography, Grammar, Drawing, Vocal Music, History and Physical Culture.

*Middle Year*—Reading, Writing, Geography, Grammar, Physical Geography, Physiology, Drawing, Arithmetic (Written and Mental), Algebra, History, Introductory to Science, Vocal Music and Physical Culture.

*Senior Year*—English and American Authors, Arithmetic (Written and Mental), General History, Algebra, Grammar, Drawing, Writing, Ethics, Physical Culture, Vocal Music.

All classes take courses in Agriculture. The boys in addition take forging, joinery and wood turning; the girls sewing and cooking.

Upon completing the course satisfactorily the student is given a certificate.

Latin is taught in Middle and Senior classes as an elective subject. Weekly rhetoricals.

## Department of Domestic Science.

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SOPHIA M. PARKER, Head of Department.

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The National life depends entirely upon the individual homes. The home demands the exercise of woman's best powers broadly and carefully trained. The aim of this department is to train the girls in the habits of neatness, thoroughness and gentleness, and to afford training and instruction in the special subjects which must be considered in the daily administration of every home.

*Sewing*—This course begins with the first year in the Preparatory Department and continues throughout the entire course. Special attention is given to the various stitches, buttonholes, cutting and making children's and ladies' garments, the use of the sewing machine and attachments, also the art of fancy needlework.

*Cooking*—This course also begins with the first year in the Preparatory Department and continues throughout the entire course. Special attention is given to food economics—the selection of foods with regard to cost and quality.

There is a general demand for persons trained in this special branch and in order to meet such a demand the following course is laid out as one which will enable young women to meet more intelligently the requirements of home and society.

### Sewing.

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#### PREPARATORY DEPARTMENT.

**First Year**—The various stitches, overhanding, running, folding-hem, hemming, stitching, back-stitching, overcasting, patch-work, cutting, and outlining. Flat-fell, French-fell, gussets, gathering and sewing on bands, sewing on tapes, cutting, basting and making aprons, use of machine and hemstitching.

**Second Year**—Patching, darning, various fancy stitches, drawn work, cutting and making undergarments, children's clothing, buttonholes, overhanded gatherings, binding with braid, hooks and eyes, button loops, and tucking on machine.

**Third Year**—Preparatory dress making, cutting, fitting and matching colors, drafting by chart, bone-casting, and binding seams.

### College Classes.

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First Year—Plain and fancy undergarments, fancy needlework, plain dressmaking, drafting by chart.

Second Year—Cutting and fitting by patterns, drafting by chart and making garments.

Third Year—Cutting and fitting by patterns, review of the drawn work and hemstitching and drafting.

Fourth Year—Fancy dressmaking, millinery and embroidery. Review of the previous year's work.

Students will furnish the cloth for dress-making. Cloth is furnished by the College for the Preparatory work. There will be provisions made for those who wish to take a special course in dressmaking.

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### Cooking and Food Economy.

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First Year—Brown gravy, brown beef stew, corn bread, baking powder biscuit, ginger cakes, hash, soup, white sauce, boiled pork and cabbage, vegetables; making and care of fire, and washing dishes.

Second Year—Light bread, frying in deep fat, fresh fish, tapioca pudding, corn muffins, sponge cake, beaten biscuits, smothered chicken, and pan broiling.

Third Year—Roasting, pastry, boiled beef with vegetables, boiled custard, meat pie, salt fish, fruit cake, plum pudding and pound cake.

Fourth Year—Potatoes cooked in various ways, fish chowder, potted meats, broiling over coals, layer cakes, wheat muffins, trying out lard, baked custard, pudding, making sausage.

Fifth Year—Various kinds of jelly, icing for cakes, ice cream, candies, pudding, sauce, waffles, boiled puddings, Graham bread, French dressing.

Sixth Year—Clarifying soup, candies, fancy ices, fish sauce, salads with mayonaise, invalid cookery. Preserving and pickling.

The first and second years' work as above laid out is intended to be done by the Preparatory classes.

## Organizations.

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The growth of the institution made it necessary for two general literary organizations.

The Agricultural society is known as the "Eclectic Literary Society," the Mechanical as the "Collegian." Membership is optional. The meetings are held bi-weekly.

### Eclectic Literary Society.

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#### OFFICERS.

C. C. Hunter . . . . .	President
E. P. Colson . . . . .	Vice-President
Lillie B. Wilson . . . . .	Secretary
Clara B. Butler . . . . .	Treasurer
C. H. Best . . . . .	Chaplain
T. H. Hepler . . . . .	Editor
J. R. Quick . . . . .	Critic

### Collegian Literary Society.

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#### OFFICERS.

E. S. Plummer . . . . .	President
J. O. Plummer . . . . .	Vice-President
Estella D. Jones . . . . .	Secretary
S. Inez Dudley . . . . .	Treasurer
A. Vivian Dudley . . . . .	Collegian
J. P. Neal . . . . .	Critic

## Y. P. S. C. E.

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The Christian Endeavor Society owes its organization to conditions which the Y. M. C. A. cannot reach. Its work is effective and far-reaching.

#### OFFICERS.

M. L. Newby . . . . .	President
Clara B. Butler . . . . .	Vice-President
Estella D. Jones . . . . .	Secretary
C. D. Robinson . . . . .	Treasurer

**Y. M. C. A.****OFFICERS.**

J. R. Quick . . . . .	President
A. P. Henderson . . . . .	Vice-President
E. F. Colson . . . . .	Secretary
C. D. Robinson . . . . .	Corresponding Secretary
R. D. Moore . . . . .	Treasurer

**Athletic Association.**

J. H. Green . . . . .	President
J. O. Plummer . . . . .	Vice-President
W. F. Robinson . . . . .	Secretary
T. H. Hepler . . . . .	Treasurer



## List of Students.

### POST GRADUATES.

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Cunningham, I. S. . . . .	Hillsboro
Falkner, E. L. . . . .	Warrenton
Joyner, J. M. . . . .	Tarboro
Robinson, P. E. . . . .	Raleigh
Windsor, W. B. . . . .	Reidsville

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### SENIOR CLASS.

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Best, C. H. . . . .	Snow Hill
Greene, J. H. . . . .	Wilmington
Moore, R. D. . . . .	Wilmington
Neal, J. P. . . . .	Winston-Salem
Plummer, E. S. . . . .	Warrenton
Quick, J. R. . . . .	Laurinburg
Robinson, C. D. . . . .	Mt. Gilead
Thomas, E. L. . . . .	Charlotte

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### JUNIOR CLASS.

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Colson, E. F. . . . .	Ansonville
Edwards, G. A. . . . .	Bynums

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### SOPHOMORE CLASS.

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Bryant, C. L. . . . .	Wilmington
Bullock, Mrs. H. A. . . . .	Greensboro
Henderson, A. P. . . . .	Hillsboro
Hepler, Thomas . . . . .	Winston
Little, N. H. . . . .	Little's Mill
Perry, A. A. . . . .	Fayetteville
Quinn, William . . . . .	Gastonia
White, W. A. . . . .	Hillsboro



FORGING.



MACHINE WORK.



WOOD TURNING.



POWER WOOD SHOP.

### Freshman Class.

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Dudley, Vivian A. . . . .	Wilmington
Latta, Carrie B. . . . .	Hillsboro
Mebane, Albert L. . . . .	Greensboro

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### Specials.

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Ames, Charlie C. . . . .	Durham
Butler, Clara B. . . . .	Elizabeth City
Edwards, Robert L. . . . .	Bynums
Garrett, Mrs. F. A. . . . .	Greensboro
Grimes, Francis E. . . . .	Asheville
Holcombe, A. J. P. . . . .	Wilmington
Hunter, Charles C. . . . .	Raleigh
McLean, W. H. . . . .	Asheville
Newby, Martin L. . . . .	Elizabeth City
Plummer, John O. . . . .	Warrenton
Thomas, J. G. . . . .	Wilmington
Williston, F. O. . . . .	Fayetteville
Williston, James T. . . . .	Fayetteville

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### Senior Preparatory Class.

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Alston, Sarah V. . . . .	Raleigh
Carter, Alma J. . . . .	Reidsville
Colley, John C. . . . .	Durham
Cotton, Lillian . . . . .	Greensboro
Custon, John W. . . . .	Wilmington
Davis, L. E. . . . .	Wilmington
Davis, Mary O. . . . .	Hillsdale
Davis, R. T. . . . .	Wilmington
Dudley, S. Inez . . . . .	Wilmington
Dunn, John H. . . . .	Wake Forest
Dunham, P. W. . . . .	Eulonia, S. C.
Evans, George . . . . .	Raleigh
Farrington, Bitha L. . . . .	Greensboro
Hall, William H. . . . .	West Raleigh

Hawkins, Frank L. . . . .	West Raleigh
Haywood, Burk . . . . .	West Raleigh
Hooper, T. H. . . . .	Laurinburg
Jeffreys, Annie G. . . . .	Jackson
Jones, Carrie E. . . . .	Raleigh
Jones, Estelle D. . . . .	Chapel Hill
McKenzie, Sarah P. . . . .	Greensboro
McLendon, J. B. . . . .	Ansonville
Nunnally, Thomas M. . . . .	Yak, Va.
Pritchett, Nannie L. . . . .	Greensboro
Quick, Knox S. . . . .	Laurinburg
Rayner, N. M. . . . .	Raleigh
Richardson, W. F. . . . .	Wilmington
Richie, Florence V. . . . .	Abbeville, S. C.
Robinson, M. F. . . . .	Laurinburg
Shepard, W. L. . . . .	West Raleigh
Simmons, Victor W. . . . .	Statesville
Smitherman, W. A. . . . .	Greensboro
Strong, Andrew J. . . . .	Matrimony
Willis, Josie H. . . . .	Wilmington
Williams, S. M. . . . .	Warrenton
Wilson, Lillie B. . . . .	Hillsboro
Witherspoon, Annie F. . . . .	Raleigh
Wright, Annie C. . . . .	Danville, Va.
Wooten, David . . . . .	Princeville

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### Middle Preparatory Class.

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Alston, A. A. . . . .	Raleigh
Blackwell, Lucy A. . . . .	Greensboro
Coltrain, Jones A. . . . .	Liberty
Cooper, J. L. . . . .	Warrenton
Davis, C. G. . . . .	Coltenville
Dendy, Carrie H. A. . . . .	Laurens, S. C.
Donnell, Australia E. . . . .	Greensboro
Edwards, Mattie L. . . . .	Greensboro
Ellis, J. R. . . . .	Charlotte
Farrish, Janie D. . . . .	Greensboro
Fitzgerald, Samuel B. . . . .	Durham
Finley, Arthur . . . . .	Asheville
Forest, G. G. . . . .	Lander's Mill



Gay, Daisy R. . . . .	Jackson
Gray, R. T. . . . .	Greensboro
Gwyn, Cecil B. . . . .	Greensboro
Hankins, O. . . . .	Wilmington
Hawkins, S. Walker . . . . .	Winston
Holley, Mary A. . . . .	Hertford
Hopkins, W. F. . . . .	Franklinton
Howard, John G. . . . .	Raleigh
Jackson, Nathaniel E. . . . .	Carthage
Jones, Georgiana . . . . .	Raleigh
Leach, Giles E. . . . .	Pervis
Lipscombe, Hattie B. . . . .	Asheville
Logan, Erkwood . . . . .	Hendersonville
Lowe, John W. . . . .	Reidsville
Lowe, Robert L. . . . .	Reidsville
Lyons, Henry A. . . . .	West Raleigh
Martin, W. L. . . . .	Greensboro
McNair, Frank . . . . .	Laurinburg
Merrick, Annie . . . . .	Greensboro
Morehead, Sadie . . . . .	Greensboro
Morris, Katie F. . . . .	Asheville
Palmer, Dinah . . . . .	Churchill
Pemberton, M. J. . . . .	Mt. Gilead
Preston, Daisy B. . . . .	Savannah, Ga.
Queen, James H. . . . .	Wilmington
Rankin, A. E. . . . .	Greensboro
Reeves, W. V. . . . .	Glendon
Reid, Effie M. . . . .	Wadesboro
Reynolds, Mattie S. . . . .	Asheville
Rives, William H. . . . .	Beaumont
Shaw, Ellen E. . . . .	South Gaston
Shell, Alice P. . . . .	Greentack
Trice, Emma L. . . . .	Greensboro
Tucker, Josephine . . . . .	Greensboro
Ward, F. H. . . . .	Warrenton
Watson, Della A. . . . .	Grove Hill
Watson, E. B. . . . .	Goldston
Whitted, J. B. . . . .	Hillsboro
Williams, Fattie A. . . . .	Halifax
Womble, J. L. . . . .	Gulf

# JUNIOR PREPARATORY CLASS.

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Alston, Orus . . . . .	Greensboro
Avent, C. J. . . . .	Osgood
Bigelow, Meggie D. . . . .	Yanceyville
Boykin, C. D. . . . .	Wilmington
Carter, S. W. . . . .	Greensboro
Creecy, Annie L. . . . .	Gulf
Curtis, C. S. . . . .	West Raleigh
Dunlap, W. J. . . . .	Ansonville
Edwards, S. James . . . . .	Raleigh
Emmerson, Aaron . . . . .	Greensboro
Emmerson, Flossie V. . . . .	Greensboro
Fairley, J. R. . . . .	Pervis
Falkener, J. C. . . . .	Warrenton
Faucett, Annie. . . . .	Shallowford
Fonville, Herman . . . . .	Goldsboro
Hill, Susie F. . . . .	Germanton
Houze, Georgiana . . . . .	Oxford
Jefferson, C. B. . . . .	Warrenton
Jefferson, F. W. . . . .	Asheville
Johnson, A. . . . .	Greensboro
Johnson, Creola . . . . .	Greensboro
King, J. L. . . . .	Alfordsville
Lipscombe, Eddie H. . . . .	Asheville
Little, W. T. . . . .	Ansonville
Luther, Grant . . . . .	Hover Hill
Martin, Mabel. . . . .	New Berne
Martin, Nannie L. . . . .	Reidsville
Mathews, Annie A. . . . .	Apex
Merritt, Geneva . . . . .	Greensboro
Merritt, Henry . . . . .	Greensboro
Moore, Lucy . . . . .	Asheville
Newby, Maria F. . . . .	New Berne
Oldham, G. F. . . . .	Greensboro
Ramseur, Luther. . . . .	Newton
Reid, James F. . . . .	Wadesboro
Sanders, Bessie . . . . .	Wilmington
*Short, V. B. . . . .	Greensboro

Stewart, Needham . . . . .	Laurinburg
Stokes, Lee A. . . . .	Farmers
*Thompson, Louvenia . . . . .	Asheville
Thornton, T. C. . . . .	Raleigh
Washington, Susie . . . . .	Goldsboro
Williams, Henry . . . . .	Raleigh

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\* Deceased.









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